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Terms: **patno=5831758** ([Edit Search](#))

868737 (08) 5831758 November 3, 1998

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5831758

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November 3, 1998

Multi-beam optical scanner

REISSUE: Reissue Application filed Oct. 18, 1999 (O.G. Dec. 7, 1999) Ex. Gp.: 2872; Re. S.N. 09/421,332, (O.G. December 7, 1999)

INVENTOR: Sakai, Kohji, Tokyo, JP; Aoki, Magane, Kanagawa, JP

APPL-NO: 868737 (08)

FILED-DATE: June 4, 1997

GRANTED-DATE: November 3, 1998

PRIORITY: June 5, 1996 - 8-142791, Japan (JP); January 9, 1997 - 9-002334, Japan (JP)

ASSIGNEE-AT-ISSUE: Ricoh Company, Ltd., Tokyo, JP

ASSIGNEE-AFTER-ISSUE: December 29, 1997 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., RICOH COMPANY, LTD. 1-CHOME, OHTA-KU 3-6, NAKAMAGOME TOKYO 143 JAPAN, Reel and Frame Number: 008877/0070

LEGAL-REP: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

PUB-TYPE: November 3, 1998 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 359#204

US-ADDL-CL: 347#243, 359#207, 359#208, 359#216

CL: 359, 347, 359

SEARCH-FLD: 359#204.-208, 359#216.-219, 347#233, 347#238, 347#241.-244

IPC-MAIN-CL: G 02B026#8

PRIM-EXMR: Phan, James

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1/14/03

US 5,831,758

09/421332

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?us5831758/pn

** SS 1: Results 1

Search statement 2

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
CPIM (C) Questel-Orbit
PN - US5831758 A 19981103 [US5831758]
TI - (A) Multi-beam optical scanner
PA - (A) RICOH KK (JP)
IN - (A) SAKAI KOHJI (JP); AOKI MAGANE (JP)
AP - US86873797 19970604 [1997US-0868737]
PR - JP14279196 19960605 [1996JP-0142791]
- JP233497 19970109 [1997JP-0002334]
IC - (A) G02B-026/08
EC - G02B-026/12D
PCL - ORIGINAL (O) : 359204000; CROSS-REFERENCE (X) : 347243000 359207000
359208000 359216000
DT - Basic
CT - US5025268; US5671077; JP6-48846; JP7-111509
STG - (A) United States patent
AB - A multi-beam optical scanner, in which a lateral magnification beta
in a composite system of an optical system between the light source
for a multi-beam and the scanned surface satisfies the condition: $2 < \beta \leq 8.5$, and a plurality of light spots on the scanned surface
execute optical scanning of the scanning lines adjacent to each other.

1/1 LGST - (C) LEGSTAT
PN - US 5831758 [US5831758]
AP - US 868737/97 19970604 [1997US-0868737]
DT - US-P
ACT - 19970604 US/AE-A
APPLICATION DATA (PATENT)
{US 868737/97 19970604 [1997US-0868737]}
- 19971229 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
RICOH COMPANY, LTD. 1-CHOME, OHTA-KU 3-6, NAKAMAGOME TOKYO 143, JAPAN *
SAKAI, KOHJI : 19970825; AOKI, MAGANE : 19970825
- 19981103 US/A
PATENT
- 19991207 US/RF
REISSUE APPLICATION FILED /
19991018
UP - 2000-06

1/14/03

US 5,831,758

09/421332

1/1 CRXX - (C) CLAIMS/RRX

AN - 3066115

PN - 5,831,758 A 19981103 [US5831758]

PA - Ricoh Co Ltd JP

PT - E (Electrical)

ACT - 19991018 REISSUE REQUESTED

Issue Date of O.G.: 19991207

Reissue Request Number: 09/421332

Examination Group responsible for Reissue process: 2872

UP - 1999-48

UACT- 1999-12-07

1/1 PAST - (C) Thomson Derwent

AN - 199949-001165

PN - 5831758 A [US5831758]

DT - A (UTILITY)

OG - 1999-12-07

CO - REA

ACT - REISSUE APPLICATION FILED

SH - REISSUE APPLICATION FILED

Search statement 2

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?fam us5831758/pn

1 Patent Groups

** SS 1: Results 2

Search statement 2

?famstate nonstop

1/2 INPADOC - (C) INPADOC

PN - JP 10054950 A2 19980224 [JP10054950]

TI - MULTIBEAM OPTICAL SCANNING DEVICE

IN - SAKAI KOJI; AOKI MASAKANE

PA - RICOH KK

AP - JP 2334/97-A 19970109 [1997JP-0002334]

PR - JP 2334/97-A 19970109 [1997JP-0002334]

- JP 142791/96-A 19960605 [1996JP-0142791]

IC - G02B-026/10; B41J-002/44; G02B-013/18; G02B-013/24; H04N-001/113

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US 5,831,758

09/421332

2/2 INPADOC - (C) INPADOC
PN - US 5831758 A 19981103 [US5831758]
TI - MULTI-BEAM OPTICAL SCANNER
IN - SAKAI KOHJI [JP]; AOKI MAGANE [JP]
PA - RICOH KK [JP]
AP - US 868737/97-A 19970604 [1997US-0868737]
PR - JP 142791/96-A 19960605 [1996JP-0142791]
- JP 2334/97-A 19970109 [1997JP-0002334]
IC - G02B-026/08

1/1 LEGALI - (C) LEGSTAT

PN - US 5831758 [US5831758]

AP - US 868737/97 19970604 [1997US-0868737]

DT - US-P

ACTE- 19970604 US/AE-A

APPLICATION DATA (PATENT)

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- 19971229 US/AS02

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SAKAI, KOHJI : 19970825; AOKI, MAGANE : 19970825

- 19981103 US/A

PATENT

- 19991207 US/RF

REISSUE APPLICATION FILED

19991018

UP - 2000-06

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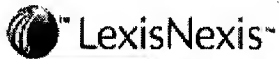
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